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**Introduction to Finite
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~~Element Analysis Tutorial~~

~~Quick Overview What is the~~

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Intuitive Introduction to

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steps of finite element

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1 Derivation of the Method In order to derive the fundamental

concepts of FEM we will start by looking at an

extremely simple ODE and approximate it using FEM.

1.1 The Model Problem The model problem is: $u'' + u = x$
 $0 < x < 1$ $u(0) = 0$ $u(1) = 0$ (1)

Finite Element Method

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of the Method In order to derive the fundamental concepts of FEM we will start by looking at an extremely simple ODE and approximate it using FEM.

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efficiently and accurately solve their practical analysis problems. The course material presented is completely software independent, making the course accessible to current or future users of any available commercial FEA software. This course is a must for all engineers who focus on the use of Finite Element Analysis as a reliable tool for structural stiffness and strength calculations.

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CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): The idea of boundary element methods is that we can approximate the solution to a PDE by looking at the solution to the PDE on the boundary and then use that information to find the solution inside the domain. This sounds like a strange idea, but it is a very powerful tool for finding solutions.

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While Turner's application for the direct stiffness finite element method was vibration calculations to facilitate flutter and dynamic analysis, Ray Clough, from the University of California at Berkley, partnering with Boeing, realized that this method

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could be applied to stress analysis. Many others contributed to the development and popularization of today's modern finite element method
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